

Dr. SNS RAJALAKSHMI COLLEGE OF ARTS AND

SCIENCE

(AUTONOMOUS)

Accredited by NAAC (Cycle- III) with 'A+' Grade



DEPARTMENT OF B.SC CS (GCD)

21UCU407 - COMPUTER NETWORKS AND DATA COMMUNICATIONS UNIT- I

Traditional vs Multimedia Applications

- traditionally Internet dominated by info retrieval applications
 - typically using text and image transfer
 - —eg. email, file transfer, web
- see increasing growth in multimedia applications
 - —involving massive amounts of data
 - —such as streaming audio and video

Elastic and Inelastic Traffic

- elastic traffic
 - —can adjust to delay & throughput changes over a wide range
 - —eg. traditional "data" style TCP/IP traffic
 - —some applications more sensitive though
- inelastic traffic
 - —does not adapt to such changes
 - —eg. "real-time" voice & video traffic
 - —need minimum requirements on net arch

Multimedia Technologies

TECHNOLOGIES

Quality of service

Protocols

Communications/networking

Synchronization

Compression

User interface

Database

Operating system

Computer architecture

Test Sound Graphics Mation

MEDIA TYPE

MM e-mail

Collaborative work systems

MM conferencing

Streaming audio/video

VoIP

APPLICATION